

<u>First Hit</u>	<u>Fwd Refs</u>
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L35: Entry 3 of 10

File: USPT

Mar 1, 2005

DOCUMENT-IDENTIFIER: US 6862609 B2

TITLE: Redundant storage for multiple processors in a ring network

Drawing Description Text (52):

FIG. 37 illustrates some of supported block sizes for Linux for various filesystem types.

Drawing Description Text (53):

FIG. 38 illustrates some of supported cluster sizes for Windows NT and 2000 for various filesystem types.

Drawing Description Text (56):

FIG. 40B depicts a read-ahead method using filesystem knowledge and read requests as input.

Detailed Description Text (36):

RNS DADS cabinets or DASD strings can also be used as large Network Attached Storage servers to provide Ethernet based storage area networks. An RNS can also be configured to host multiple NFS, NCP, SMBFS, or iSCSI clients via an Ethernet connection, as shown in FIGS. 11 and 12. In FIG. 11, DASD strings 1108, 1110, and 1112 are connected to an Ethernet network. As in FIG. 10, DASD strings 1108, 1110 and 1112 is composed of DASD cabinets labeled 1101. A client 1100 accesses the DASD strings through the NCP protocol. Another client 1102 accesses the DASD string through the NFS protocol. A third client 1104 accesses the DASD strings through the iSCSI protocol. A fourth client 1105 accesses the DASD strings through the NCP, NFS, and iSCSI protocols. In FIG. 12, a DASD string 1208 (again, composed of DASD cabinets labeled 1201) is made available through Ethernet connections 1200, 1202, 1204, and 1206 to a client. The first connection 1200 accesses the string 1208 using the iSCSI protocol, the storage being accessible under /dev/sda and /dev/sdb. The second connection 1202 accesses the string 1208 using the NCP protocol, the storage being accessible under SYS:/ and VOL1:/ . The third connection 1204 accesses the string 1208 using the NFS protocol, the storage being accessible under /mnt/remote. The fourth connection 1206 also accesses the string 1208 using the NFS protocol, the storage being accessible under /mnt/remotel.

Detailed Description Text (69):

The hotfix redirection data area is a large table of free sectors that is used to redirect read and write data to known good sectors. The hotfixing subsystem is self-healing and self-describing. This means that if the hotfix table is attempting to write to itself, and gets a read or write error, it has the capability of hotfixing the hotfix table, and creating self-describing entries that allow it to re-map its own sectors in the hotfix data area.

Detailed Description Text (114):

The SISI virtual device mapping module creates virtual disk objects and exports them to SCI attached hosts devices. The mirroring, hotfixing, and segment journaling is implemented in the mirroring subsystem modules (M2CS and NWVP). The configuration monitor daemon provides TCP service ports that can be used to configure an RNS array over Ethernet via telnet or the RNS configuration utility. The HSM data mining daemon creates "ghost mirrors" in user space of virtual disks

for dynamic device reconstruction and also performs array reconstruction from disk segment cache and tape archives for disaster recovery. This daemon provides HSM specific TCP service ports that allow data mining operations to be performed remotely from either an SCI interconnect or an Ethernet network. The HSM daemon is the server side component of the HSM management and configuration console.

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L35: Entry 4 of 10

File: USPT

Sep 21, 2004

DOCUMENT-IDENTIFIER: US 6795895 B2

TITLE: Dual axis RAID systems for enhanced bandwidth and reliability

Drawing Description Text (52):

FIG. 37 illustrates some of supported block sizes for Linux for various filesystem types.

Drawing Description Text (53):

FIG. 38 illustrates some of supported cluster sizes for Windows NT and 2000 for various filesystem types.

Drawing Description Text (56):

FIG. 40B depicts a read-ahead method using filesystem knowledge and read requests as input.

Detailed Description Text (36):

RNS DADS cabinets or DASD strings can also be used as large Network Attached Storage servers to provide Ethernet based storage area networks. An RNS can also be configured to host multiple NFS, NCP, SMBFS, or iSCSI clients via an Ethernet connection, as shown in FIGS. 11 and 12. In FIG. 11, DASD strings 1108, 1110, and 1112 are connected to an Ethernet network. As in FIG. 10, DASA strings 1108, 1110 and 1112 is composed of DASD cabinets labeled 1101. A client 1100 accesses the DASD strings through the NCP protocol. Another client 1102 accesses the DASD string through the NFS protocol. A third client 1104 accesses the DASD strings through the iSCSI protocol. A fourth client 1105 accesses the DASD strings through the NCP, NFS, and iSCSI protocols. In FIG. 12, a DASD string 1208 (again, composed of DASD cabinets labeled 1201) is made available through Ethernet connections 1200, 1202, 1204, and 1206 to a client. The first connection 1200 accesses the string 1208 using the iSCSI protocol, the storage being accessible under /dev/sda and /dev/sdb. The second connection 1202 accesses the string 1208 using the NCP protocol, the storage being accessible under SYS:/ and VOL1:/. The third connection 1204 accesses the string 1208 using the NFS protocol, the storage being accessible under /mnt/remote. The fourth connection 1206 also accesses the string 1208 using the NFS protocol, the storage being accessible under /mnt/remotel.

Detailed Description Text (69):

The hotfix redirection data area is a large table of free sectors that is used to redirect read and write data to known good sectors. The hotfixing subsystem is self-healing and self-describing. This means that if the hotfix table is attempting to write to itself, and gets a read or write error, it has the capability of hotfixing the hotfix table, and creating self-describing entries that allow it to re-map its own sectors in the hotfix data area.

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The SISI virtual device mapping module creates virtual disk objects and exports them to SCI attached hosts devices. The mirroring, hotfixing, and segment journaling is implemented in the mirroring subsystem modules (M2CS and NWVP). The configuration monitor daemon provides TCP service ports that can be used to configure an RNS array over Ethernet via telnet or the RNS configuration utility. The HSM data mining daemon creates "ghost mirrors" in user space of virtual disks

for dynamic device reconstruction and also performs array reconstruction from disk segment cache and tape archives for disaster recovery. This daemon provides HSM specific TCP service ports that allow data mining operations to be performed remotely from either an SCI interconnect or an Ethernet network. The HSM daemon is the server side component of the HSM management and configuration console.

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Freeform Search

Database:	<div style="border: 1px solid black; padding: 2px;"> US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins </div>
Term:	<div style="border: 1px solid black; padding: 2px;"> L32 and SERVER </div>
Display:	<div style="border: 1px solid black; padding: 2px;">50</div> Documents in Display Format: <div style="border: 1px solid black; padding: 2px;">FRO</div> Starting with Number <div style="border: 1px solid black; padding: 2px;">1</div>
Generate: <input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image	

Search

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Search History

DATE: Monday, November 28, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=OR

<u>L35</u> L32 and SERVER	10	<u>L35</u>
<u>L34</u> L33 AND SERVER	0	<u>L34</u>
<u>L33</u> L32 and SAN	0	<u>L33</u>
<u>L32</u> ("self-describing") and (filesystem)	10	<u>L32</u>
<u>L31</u> (self near describing) same (filesystem)	0	<u>L31</u>

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L30</u> l29 and server	2	<u>L30</u>
<u>L29</u> 6493804.pn.	2	<u>L29</u>
<u>L28</u> 20040236745.pn.	2	<u>L28</u>
<u>L27</u> L25 and filesystem	2	<u>L27</u>
<u>L26</u> L25 and filesystem	2	<u>L26</u>
<u>L25</u> formal near description	650	<u>L25</u>
<u>L24</u> (filesystem near description)	2	<u>L24</u>

DB=USPT; PLUR=YES; OP=OR

<u>L23</u> (filesystem near description)	1	<u>L23</u>
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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L22</u>	client and (filesystem near description)	2	<u>L22</u>
<u>L21</u>	L20 and (filesystem near description)	1	<u>L21</u>
<u>L20</u>	client near filesystem	52	<u>L20</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L19</u>	description near filesystem	1	<u>L19</u>
<u>L18</u>	(description) and filesystem	585	<u>L18</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L17</u>	(formal near description) and filesystem	2	<u>L17</u>
<u>L16</u>	L15 and (formal near description)	0	<u>L16</u>
<u>L15</u>	client near "file system"	669	<u>L15</u>
<u>L14</u>	client near filesystem	52	<u>L14</u>
<u>L13</u>	L12 and (access near storage)	7	<u>L13</u>
<u>L12</u>	(formal near description) and ((file near system) or filesystem)	68	<u>L12</u>
<u>L11</u>	L10 and (script near function)	2	<u>L11</u>
<u>L10</u>	L9 and (web near page\$)	15	<u>L10</u>
<u>L9</u>	L7 and (menu\$)	18	<u>L9</u>
<u>L8</u>	L7 and (menu near table)	0	<u>L8</u>
<u>L7</u>	L3 and (file near script\$)	21	<u>L7</u>
<u>L6</u>	L5 and (file near script\$)	0	<u>L6</u>
<u>L5</u>	L3 and (menu near table)	2	<u>L5</u>
<u>L4</u>	L3 and (menu near highlighted near item)	2	<u>L4</u>
<u>L3</u>	L2 and (highlighted near text)	383	<u>L3</u>
<u>L2</u>	715/\$.cccls.	23325	<u>L2</u>
<u>L1</u>	menu near spacer near function	0	<u>L1</u>

END OF SEARCH HISTORY

Freeform Search

Database:	<div style="border: 1px solid black; padding: 2px;"> US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins </div>
Term:	<div style="border: 1px solid black; padding: 2px;"> 129 and server </div>
Display:	<div style="border: 1px solid black; padding: 2px; display: inline-block;">50</div> Documents in Display Format: <div style="border: 1px solid black; padding: 2px; display: inline-block;">-</div> Starting with Number <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div>
Generate: <input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image	

Search

Clear

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Search History

DATE: Monday, November 28, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L30</u> 129 and server	2	<u>L30</u>
<u>L29</u> 6493804.pn.	2	<u>L29</u>
<u>L28</u> 20040236745.pn.	2	<u>L28</u>
<u>L27</u> L25 and filesystem	2	<u>L27</u>
<u>L26</u> L25 and filesystem	2	<u>L26</u>
<u>L25</u> formal near description	650	<u>L25</u>
<u>L24</u> (filesystem near description)	2	<u>L24</u>

DB=USPT; PLUR=YES; OP=OR

<u>L23</u> (filesystem near description)	1	<u>L23</u>
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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L22</u> client and (filesystem near description)	2	<u>L22</u>
<u>L21</u> L20 and (filesystem near description)	1	<u>L21</u>
<u>L20</u> client near filesystem	52	<u>L20</u>

DB=USPT; PLUR=YES; OP=OR

<u>L19</u> description near filesystem	1	<u>L19</u>
<u>L18</u> (description) and filesystem	585	<u>L18</u>

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L17</u>	(formal near description) and filesystem	2	<u>L17</u>
<u>L16</u>	L15 and (formal near description)	0	<u>L16</u>
<u>L15</u>	client near "file system"	669	<u>L15</u>
<u>L14</u>	client near filesystem	52	<u>L14</u>
<u>L13</u>	L12 and (access near storage)	7	<u>L13</u>
<u>L12</u>	(formal near description) and ((file near system) or filesystem)	68	<u>L12</u>
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<u>L10</u>	L9 and (web near page\$)	15	<u>L10</u>
<u>L9</u>	L7 and (menu\$)	18	<u>L9</u>
<u>L8</u>	L7 and (menu near table)	0	<u>L8</u>
<u>L7</u>	L3 and (file near script\$)	21	<u>L7</u>
<u>L6</u>	L5 and (file near script\$)	0	<u>L6</u>
<u>L5</u>	L3 and (menu near table)	2	<u>L5</u>
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<u>L3</u>	L2 and (highlighted near text)	383	<u>L3</u>
<u>L2</u>	715/\$.ccls.	23325	<u>L2</u>
<u>L1</u>	menu near spacer near function	0	<u>L1</u>

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6493804 B1

Using default format because multiple data bases are involved.

L30: Entry 1 of 2

File: USPT

Dec 10, 2002

US-PAT-NO: 6493804

DOCUMENT-IDENTIFIER: US 6493804 B1

TITLE: Global file system and data storage device locks

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Soltis; Steven R.	Rochester	MN		
O'Keefe; Matthew T.	Plymouth	MN		
Ruwart; Thomas M.	Fridley	MN		
Houlder; Gerald A.	Bloomington	MN		
Coomes; James A.	White Bear Lake	MN		
Miller; Michael H.	Eden Prairie	MN		
Soltis; Edward A.	Elk River	MN		
Gilson; Raymond W.	St. Paul	MN		
Preslan; Kenneth W.	Minneapolis	MN		

US-CL-CURRENT: 711/152; 707/10, 707/9, 711/153

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWNC	Draw Da
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☐ 2. Document ID: US 6493804 B1

L30: Entry 2 of 2

File: DWPI

Dec 10, 2002

DERWENT-ACC-NO: 2003-327427

DERWENT-WEEK: 200331

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TITLE: Data storage device in networked computer system, includes locking mechanism which controls access to particular storage block, based on control signals received from distributed computer system

INVENTOR: COOMES, J A ; GILSON, R W ; HOULDER, G A ; MILLER, M H ; O'KEEFE, M T ; PRESLAN, K W ; RUWART, T M ; SOLTIS, E A ; SOLTIS, S R

PRIORITY-DATA: 1997US-061028P (October 1, 1997), 1998US-0164957 (October 1, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6493804 B1	December 10, 2002		037	G06F012/00

INT-CL (IPC): G06 F 12/00

ABSTRACTED-PUB-NO: US 6493804B

BASIC-ABSTRACT:

NOVELTY - A locking mechanism controls access to particular storage block provided on storage device, based on control signals received through communication interface from the distributed computer system residing on both the remote processing clients.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) distributed computer system;
- (2) method of using distributed computer system; and
- (3) computer-readable medium having instructions to use distributed computer system.

USE - For managing shared data storage on networked computer system.

ADVANTAGE - Maintains data consistency when storage contents are shared by multiple clients. Allows the use of serverless distributed architecture global file system to access content from storage device. Allows high speed data transfer across the network and eliminates risk of server failures, reduces system cost and complexity. There is no need of communication between clients to arbitrate for the shared resources. The client's failure due to direct attachment of shared storage device to the client, is avoided. Minimizes overhead steps for transferring data from shared storage device.

DESCRIPTION OF DRAWING(S) - The figure shows the table illustrating sequence of events undertaken by clients in accessing shared data.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Term	Documents
SERVER	362825
SERVERS	99062
(29 AND SERVER) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	2
(L29 AND SERVER) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	2

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L17: Entry 2 of 2

File: USPT

May 15, 2001

DOCUMENT-IDENTIFIER: US 6233576 B1

TITLE: Enhanced security for computer system resources with a resource access authorization control facility that creates files and provides increased granularity of resource permission

Brief Summary Text (23):

4. It is not easy to define a formal description of the global security system, suitable for its rigorous analysis; and

Detailed Description Text (107):

Once again, this arrangement is suitable for operating systems such as IBM's AIX operating system which use the /var filesystem to hold data files related to installed products.

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